

SECRET

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Development of Electronic Devices by
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SAG Kabel

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Wissenschaftlich-

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Technisches Büro No 3 (Scientific Technological Office No 3) (WTB 3) former WTB
Gerätebau in Berlin-Lichtenberg. [redacted] Magnetism Laboratory of
the RFT Fernmeldewerk Treptow. [redacted] development of bimetal regulators for a temperature
range of between - 60° to and +70°; contact materials for relays and radio sound devices;
and all types of condensers especially metal paper condensers of the RFT Kondensatoren-
werk Gera. [redacted] items being developed by WTB 3 included instruments for
measuring brain currents and blood pressure of pilots at reduced breath pressure and
temperatures down to - 40°.

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[redacted] an electrical encephalograph which had task No 76 M in the WTE [redacted] was scheduled for the examination of the cerebral activity of high-altitude flight pilots. Refrigerators for testing this instrument were procured in late 1952.

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most of the condensers for low temperatures which were used by the Measuring Engineering Department headed by Zeumer (fnu) were purchased in West Germany. The measuring instrument for components (Komponenten-Messinstrument) which was developed as task Nos M 58 and M 60 was scheduled to be delivered to the Werk fuer Fernmaedewesen HF. [] no components were being developed in the Metallurgical Department which, in December 1952, produced platinum thermoelectric cells and resistance thermometers.

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4. In 1950 and 1951, an electric regulating motor (Stellmotor) with a thyatron regulator was designed in the WTB 3.

5. An instrument for measuring cloud ceilings of between 50 and 2,000 meters which was developed operated by action of a high pressure inert gas lamp which was attached in a concave mirror and which emitted ultra-violet light flashes of allegedly 0.5 ~~μ~~ sec. The light reflected by the clouds was received by a photoelectric cell and amplified by a 5-tube amplifier equipped with one 6 J 6-type, three 6 A G 5-type, and one 6 J 6-type tubes. The altitude of the clouds was determined by the time difference between flash and reflection. As in the case of low clouds, the reflection appeared before the flash had ended, a time delay relay was required for the measuring action.

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6. In October 1950, an hygrometer which had been developed in 1951 was under construction. Its technical conditions required that it be smaller than 25 cm³ and be able to convert into changes of resistance, changes of moisture between the human skin and the clothing. The material sensible to moisture was said to be stored as in American-made radio sets.
7. The Soviet air force inspecting commission acting at the plant unexpectedly departed on 24 January 1953, but allegedly planned to return in late-February. The three-men naval forces inspecting commission remained at the works.

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1. Comment: This office, under the direction of SAG Kabel, has been referred to as WTB-3 and NTB-3, depending on whether the German (Wissenschaftlich) or the Russian (Nauchnyy) word for "scientific" is used; the other two words, fortunately, are similar in both languages.

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